

Error-prone PCR

Subclone mutated inserts into YEpHPR-8
Obtain region-specific random mutant libraries

Transform BJ3505/YEpPC3GS+
(trp- ura-)

CAA/Cu plate

Replica plates
(CAA/Cu/XGal)

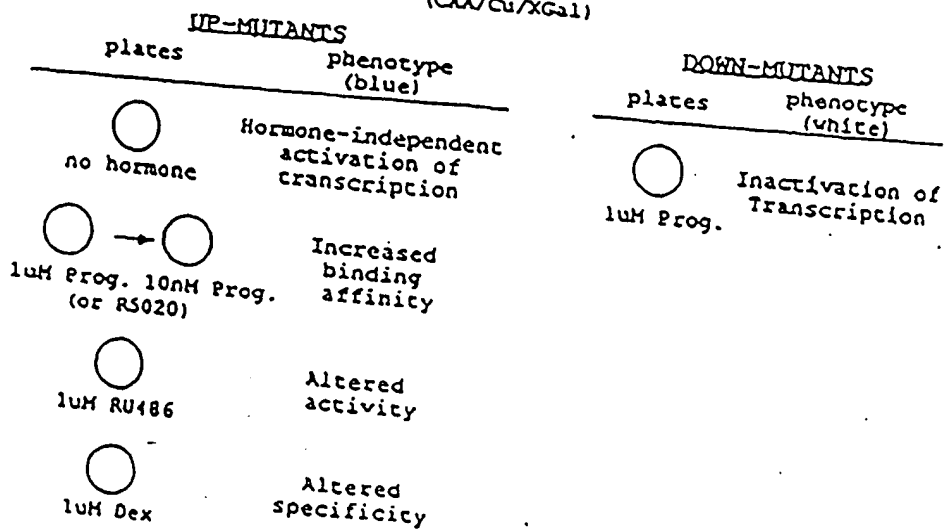


Figure 1

A

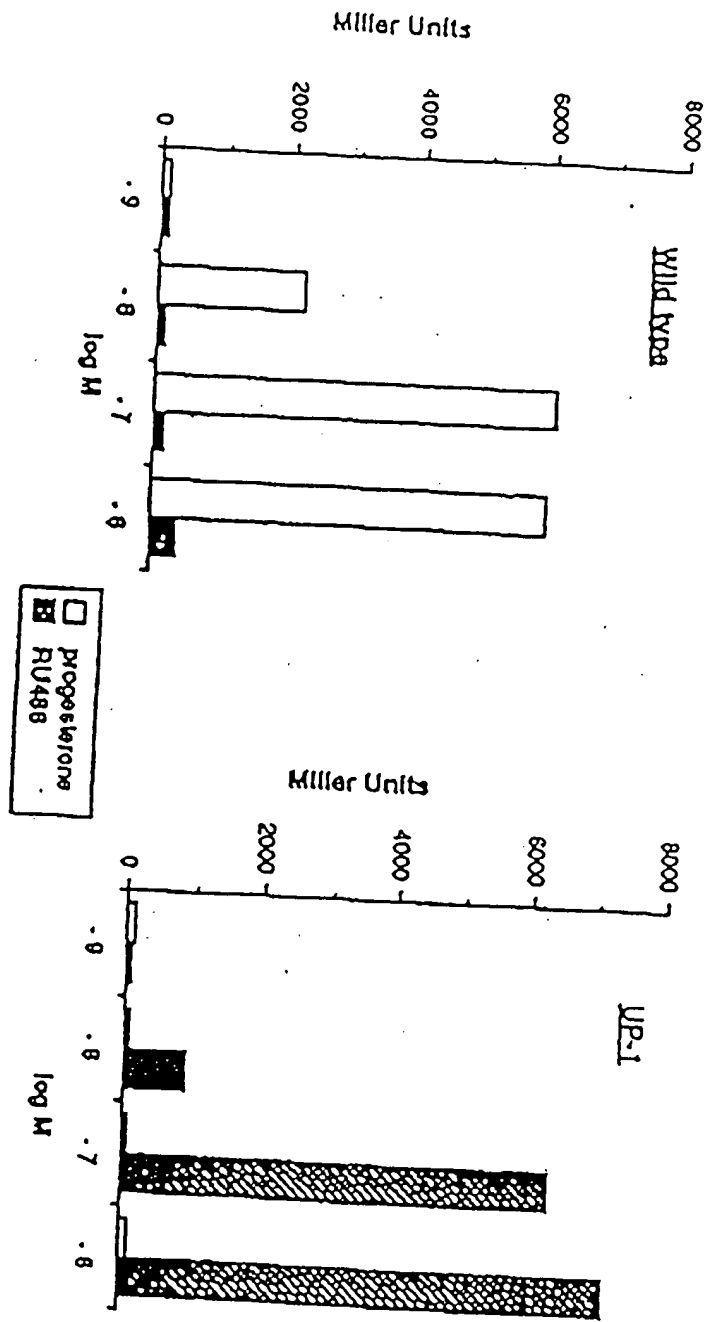


Figure 2A

08059013 102297

B

DNA sequence:

2636

WT ..AAC TTG CAT GAT CTT GTC AAA CAA CTT CAT CTG TAC TGC TTG..
 UP-1..AAT TGC ATG ATC TTG TCA AAC AAC TTC ATC TGT ACT GCT TGA

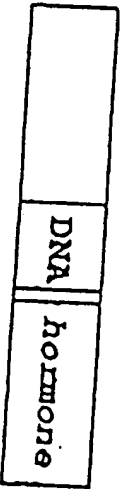
Protein sequence:

879

WT ..Asn Leu His Asp Leu Val Lys Gln Leu His Leu Tyr Cys Leu..
 UP-1..Asn Cys Met Ile Leu Ser Asn Asn Phe Ile Cys Thr Ala

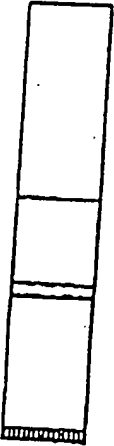
891

wild type



933

UP-1



891

Figure 2B

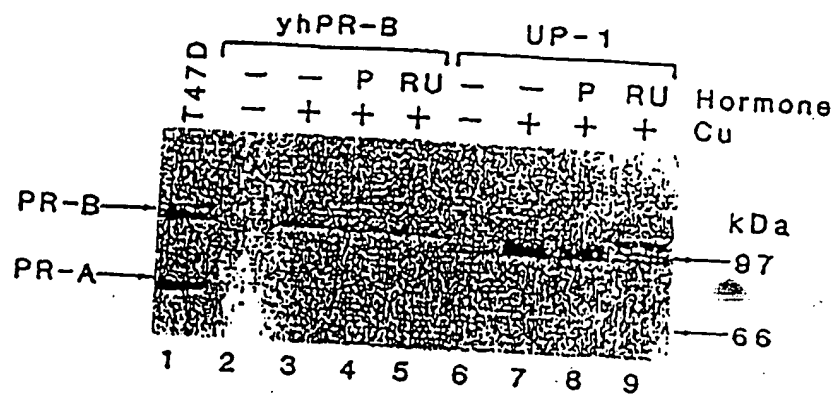


Figure 3

hPR Constructs	Transcriptional Activity		Specific Binding	
	<u>(Miller Units)</u>		<u>(nM)</u>	
	P	RU	P	RU
YEpHPR-B (933)	86	6200	586	1.0 1.3
UP-1	286	466	8050	0.02 1.6
YEpHPR-B879	166	242	5900	0.04 1.8
YEpHPR-B891	243	226	6175	0.03 1.6

Figure 4

A

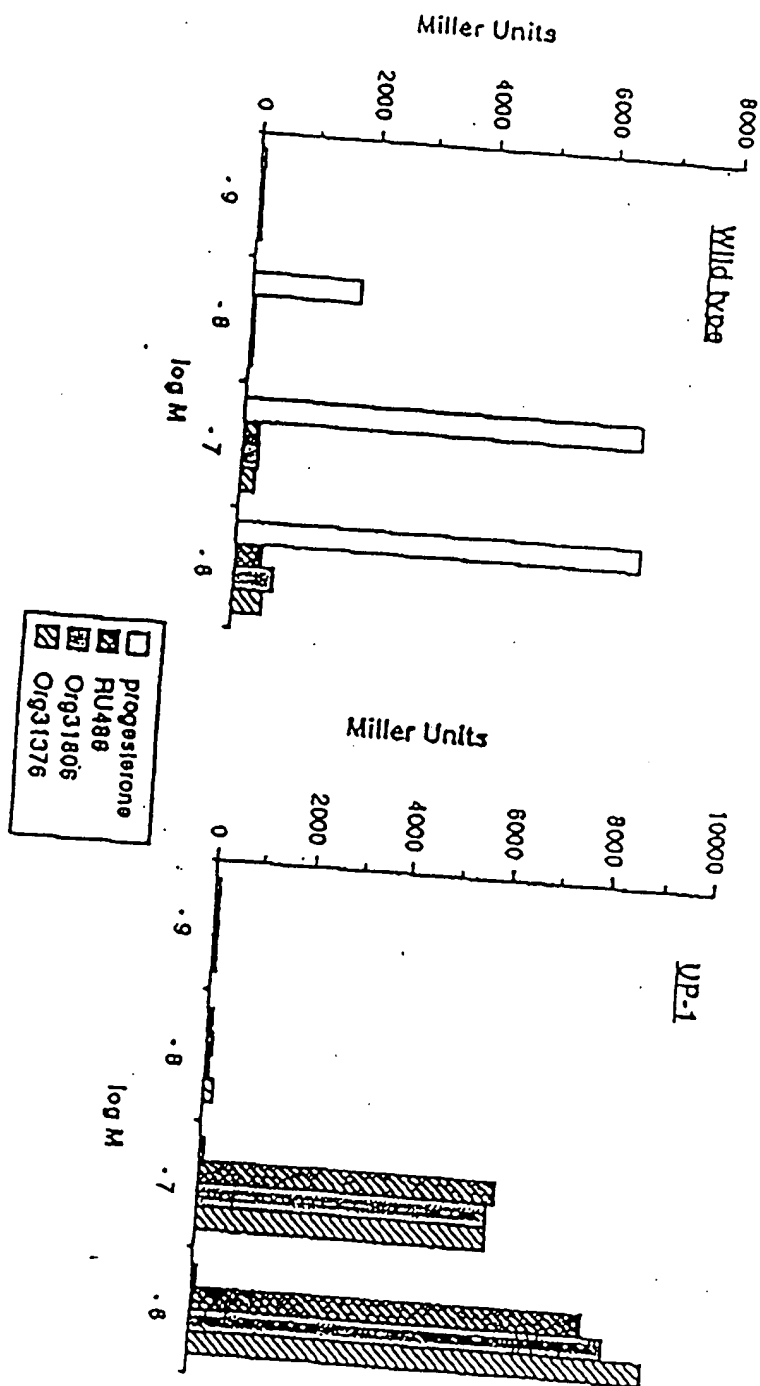


Figure 5A

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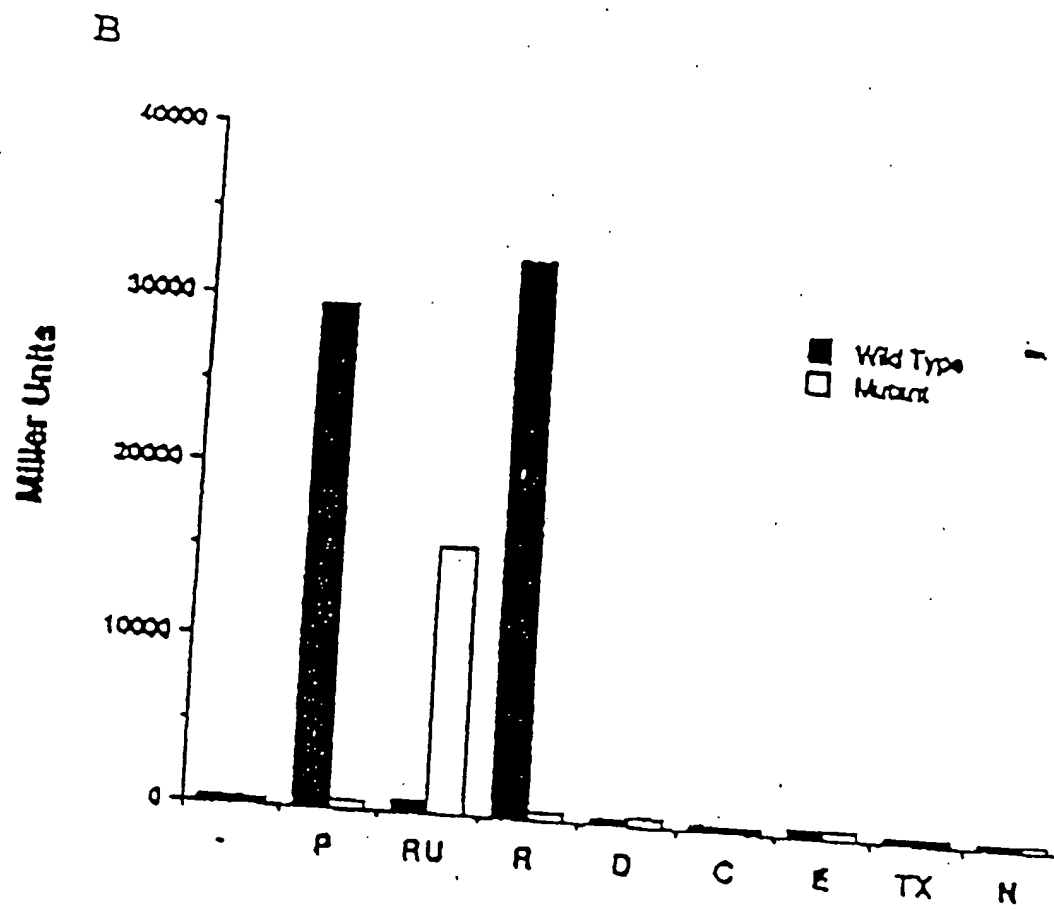


Figure 5B

Progesterone:	-	+	-	-	+	-
RU486:	-	-	+	-	-	+

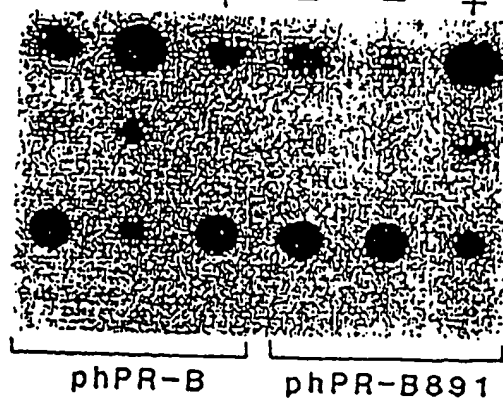


Figure 6A

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Progesterone:	-	+	-	-	+	-
RU486:	-	-	+	-	-	+

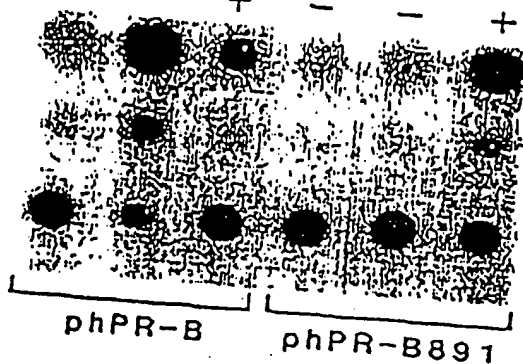


Figure 6B

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GR PR Fusion Construc

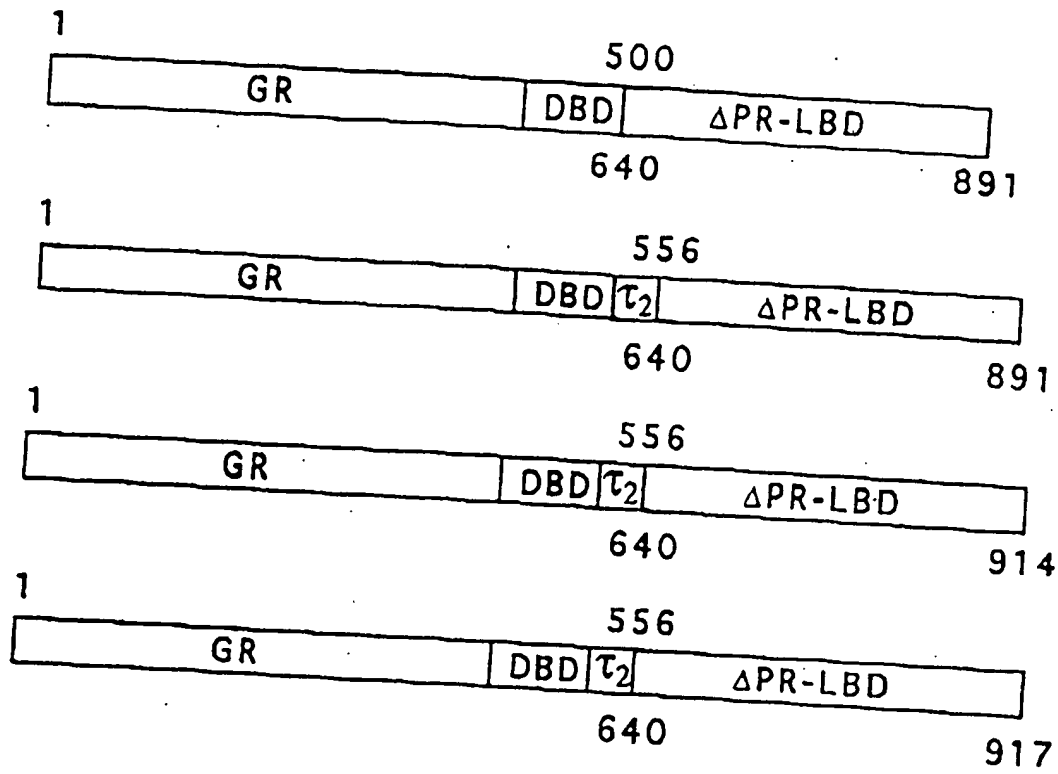
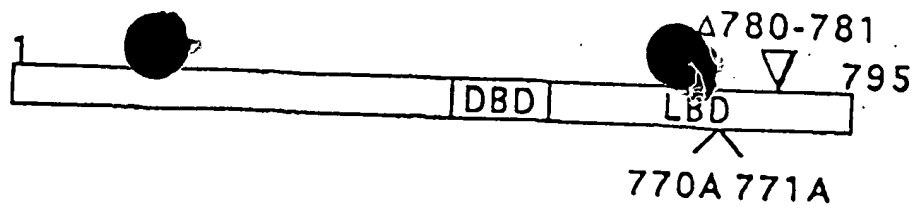


Figure 7

468207-CT065680



HUMAN GR MUTANTS

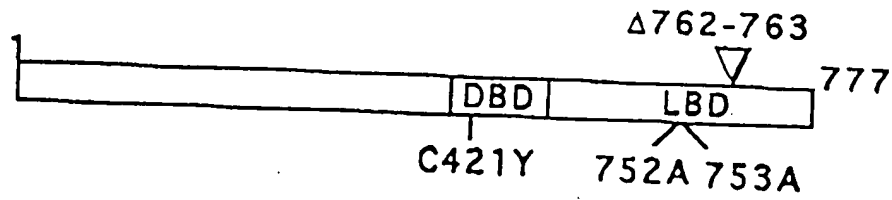
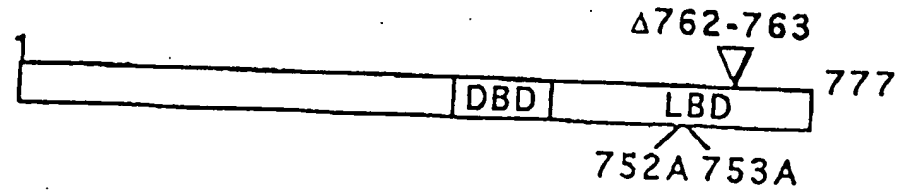


Figure 8

FIGURE 9

ORIGIN

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 121 aagtttttcag ggtgttgttt agaattgggaa gatgtccctt gtatcaccat ggaccctcat
 181 gataatttttg tttctttcac tttctactct gttgacaacc attgtctcct cttattttct
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 961 ggctgccatg aacaaagggtg gctataaaga ggtcatcagt atatgaaaca gcccctgtct
 1021 gtccattcct tattccatag aaaagccttg acttgagggt agattttttt tatattttgt
 1081 tttgtgttat ttttttcttt aacatcccta aaattttcct tacatgtttt actagccaga
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 1261 cagaggccga ggcggcctcg gcctctgcat aaataaaaaa aattagtcag ccatggggcg
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11

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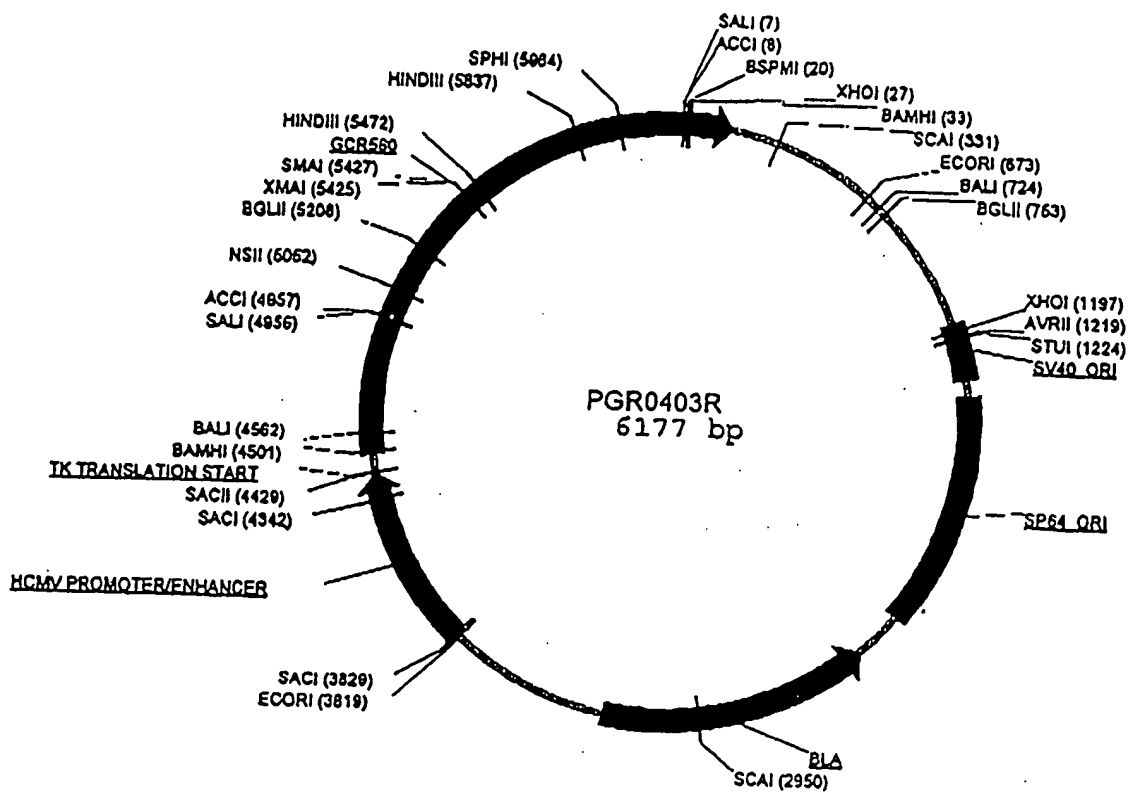


Figure 10

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receptor	treatment	pg CAT protein induced	Normalized to control
wild-type hGR	control	0.4	1
	DEX	64.4	161
	RU	1.4	3.5
GRPR fusion	control	0.9	1
	DEX	0.6	0.7
	RU	5.4	6
wild-type rat GR	control	2.2	1
	DEX	26.4	12
	RU	6.3	2.9
CS1.CD	control	2.2	1
	DEX	1.8	0.8
	RU	29.6	13.5

Figure 11

Glucocorticomimetic Receptor

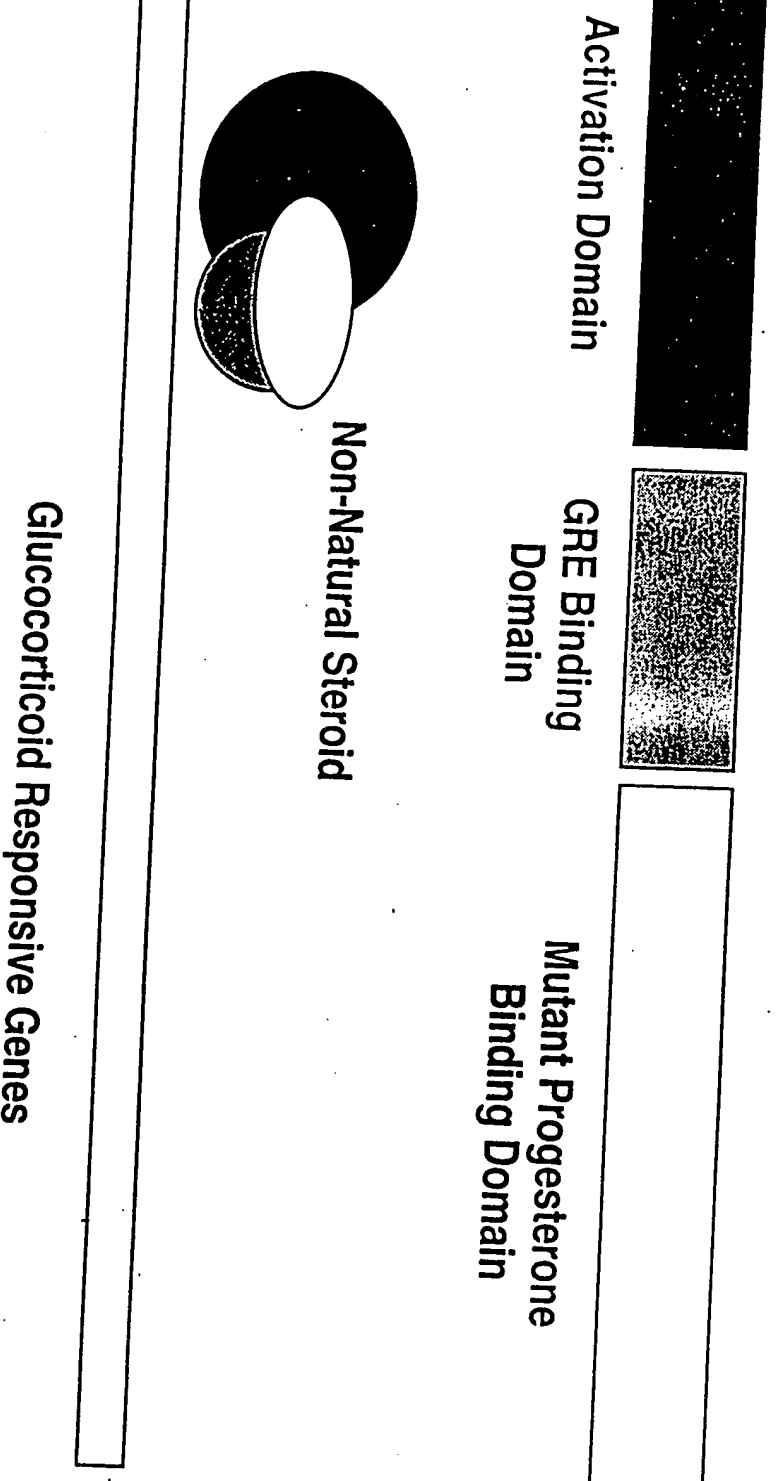


Figure 12

Gene Switch

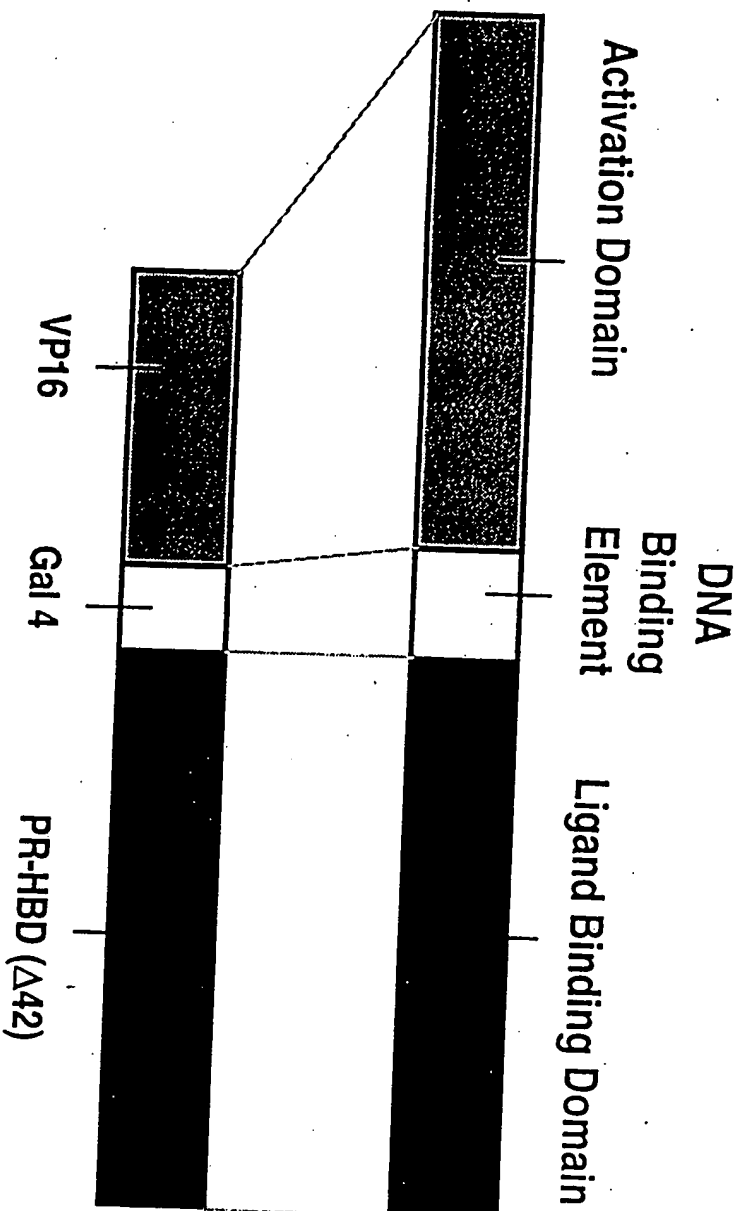


Figure 13

FIG. 14

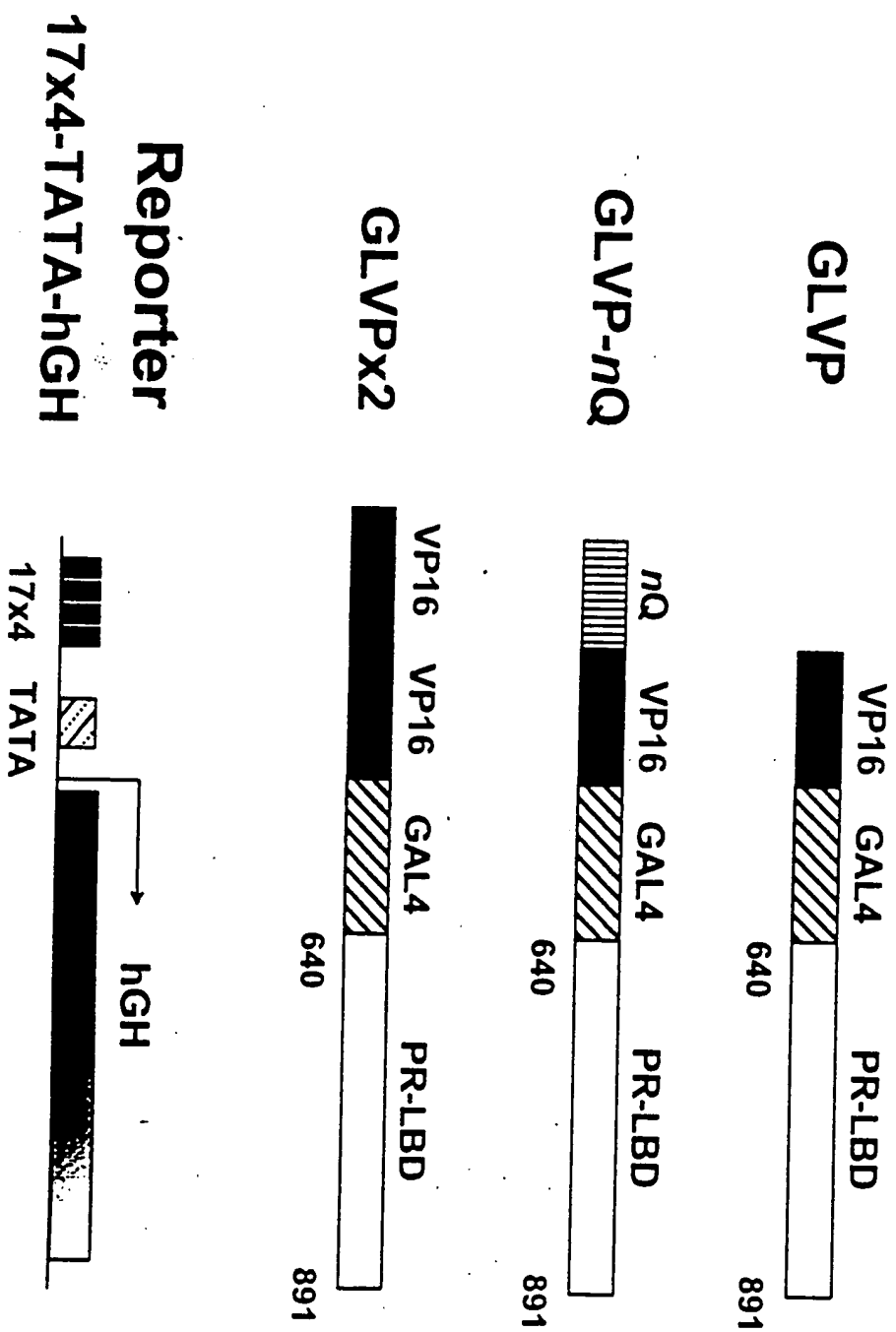
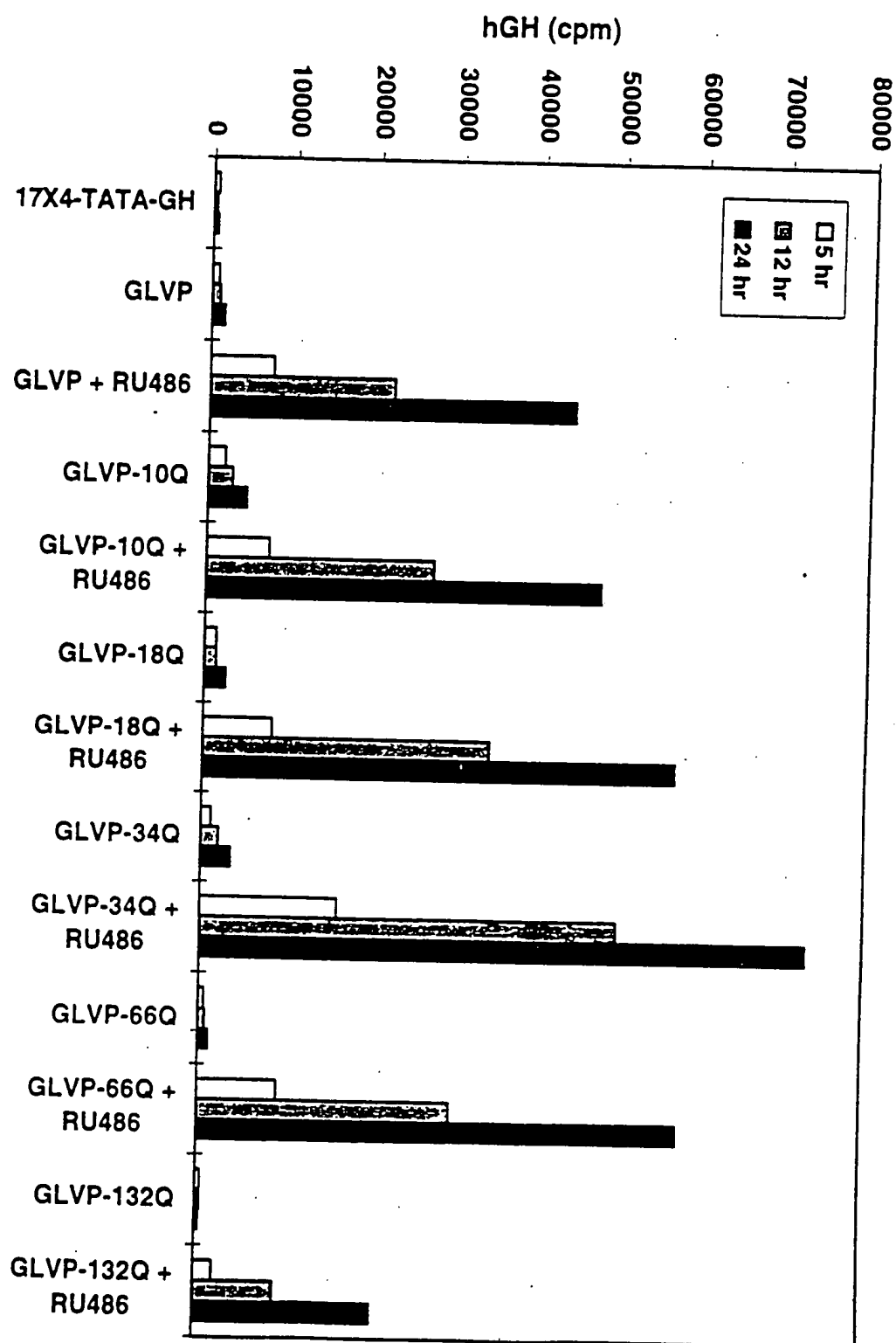


FIG. 15



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FIG. 16

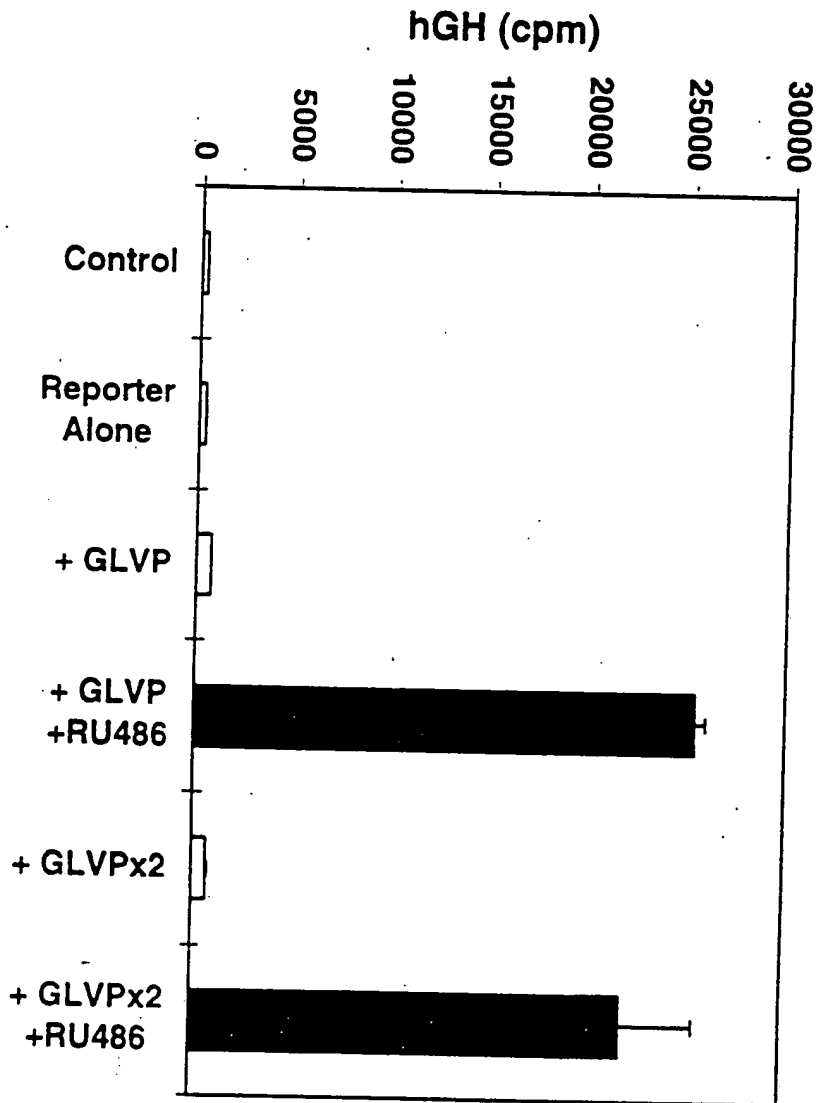


FIG. 17

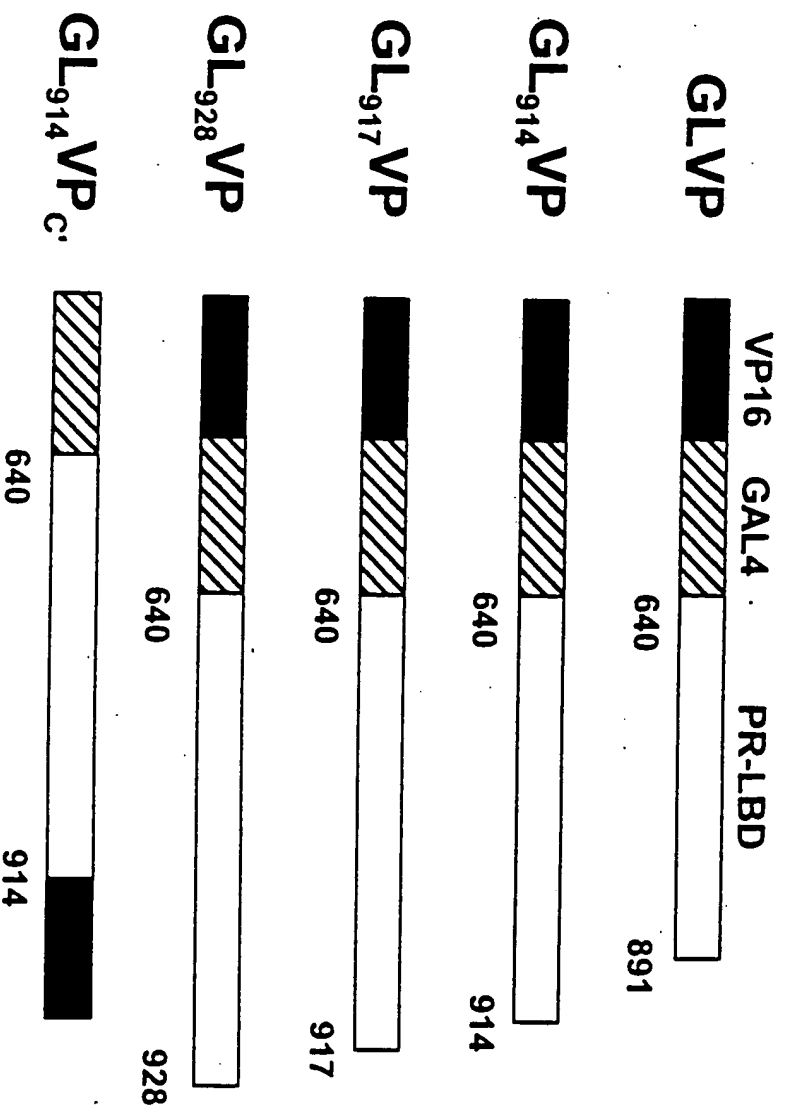


FIG. 18

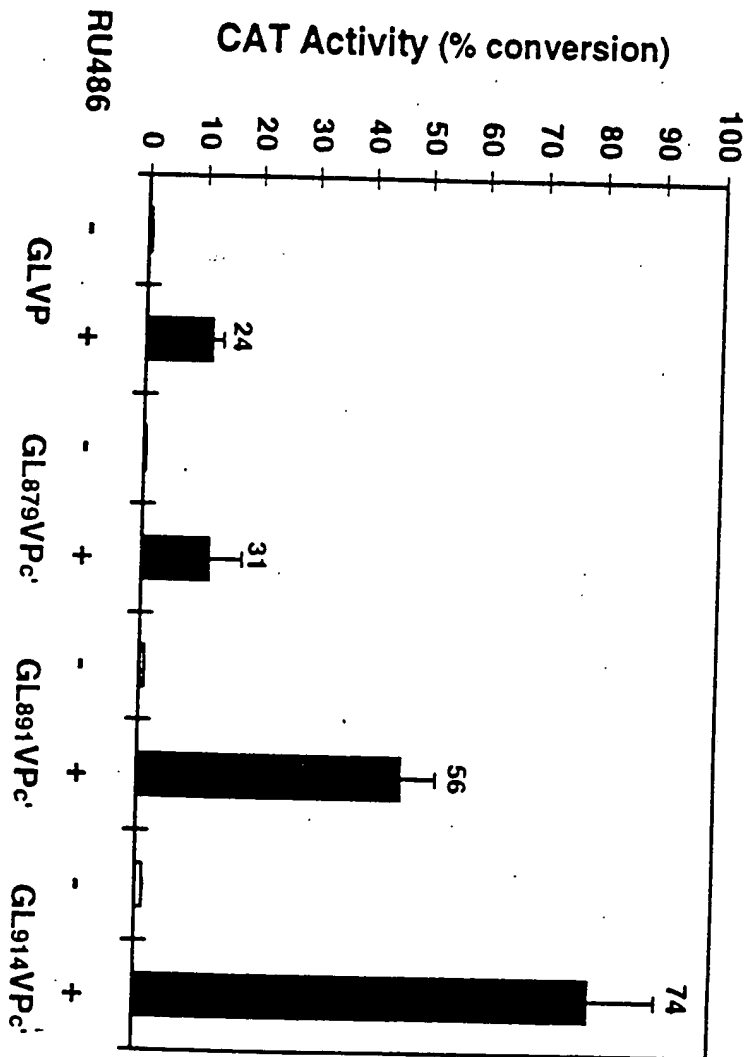
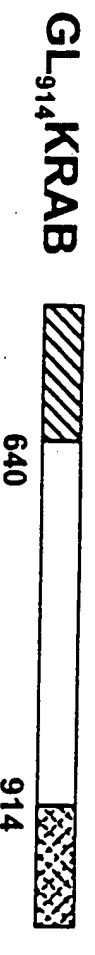


FIG. 19

Inducible Repressor



Reporter

